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GEMC-SDW

Schottky Diode Wire

INSTALLATION INSTRUCTIONS

WI1825.a 07/15

OVERVIEW

The **GEMC-SDW Schottky Diode Wire** is a UL Listed sub-assembly to the Gemini C-Series combination control panel, allowing the GEMC-XXXMB series control panels to support up to thirty-two (32) FW-2S two-wire smoke detectors (each with integral 85dB sounders) when used with the GEMC-F8ZCPIM *Conventional 8 Fire Zone Expander Plug in Module*.

All 8 zones of the GEMC-F8ZCPIM may be used to wire any combination of the total 32 FW-2S smoke detectors (each zone used requires a separate GEMC-SDW).

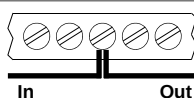
A GEMC-SDW is NOT required for each zone where a FW-2S is used with the integral sounder disabled. Do not mix FW-2S detectors with sounders and without sounders in the same zone. For each zone NOT using integral sounders, up to forty (40) FW-2S units can be utilized.

Connect the GEMC-SDW as shown in WI1651. See WI1653 for more information regarding how to wire and use the GEMC-SDW with the FW-2S smoke detector (with integral sounder enabled).

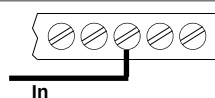
IMPORTANT WIRING METHODS



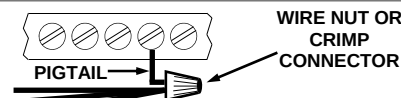
For **single-conductor terminal blocks** (like the type shown at left), to terminate more than one conductor to a terminal, use the wiring methods shown at right:



Incorrect



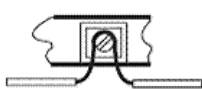
Correct -- Single incoming and/or pigtail with wire nut / crimp connectors



WIRE NUT OR CRIMP CONNECTOR



For **"barrier" type terminal blocks** (like the type shown at left), to terminate two conductors to a terminal, use the wiring methods shown at right:



Incorrect

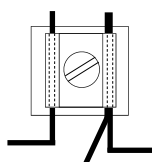


Correct -- Separate incoming and outgoing conductors

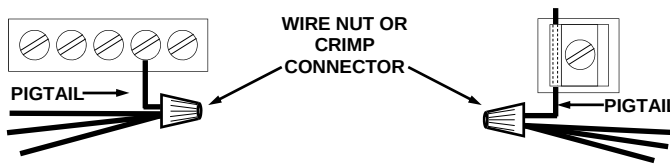


In Out

To terminate more than two conductors or conductors of different wire sizes to a terminal, use the "pigtail" type wiring method as shown at right. Use insulated wire for the pigtail, and firmly secure the conductors to the pigtail using an appropriate wire nut or crimp connector for the number and gauge of conductors used.



Incorrect



Correct -- Use pigtail and wire nut / crimp connector

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